

U.S. Department of Transportation

Research and Special Programs Administration

SEP - 4 2001

Mr. John Bickel Vice President Statlab Medical Product P.O. Box 1155 Lewisville, TX 75067 Ref. No. 01-0184

400 Seventh St., S.W.

Washington, D.C. 20590

Dear Mr. Bickel:

This is in response to your July 16, 2001 letter and subsequent telephone conversation with Eric Nelson of my staff regarding the classification of formaldehyde under the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180). Specifically, you cite a June 6, 1995 letter sent from this Office to J. G. McKay, and ask if a solution of 3.7 to 4% formaldehyde mixed with non-hazardous materials shipped in 13 ml vials by aircraft are subject to the HMR.

Based on subsequent information you provided to this Office, it is our opinion that your products are not subject to the requirements of the HMR. The letter you refer to addresses 10% formaldehyde solutions, which meet the definition of a Class 9 hazardous material. Generally, solutions of less than 10% formaldehyde mixed with non-hazardous materials do not meet the definition of a Class 9 hazardous material and, provided they do not meet any other hazard class, are not subject to the HMR. However, as provided by § 173.22 of the HMR, it is the shipper's responsibility to properly class a hazardous material. Generally, manufacturers have the knowledge to properly class the materials and products they produce, although it may be necessary to enlist an outside laboratory to assist in classification process, as testing may have to be conducted to see how a product compares to the criteria for various hazard classes.

I hope this satisfies your request.

Sincerely,

John A. Gale

Transportation Regulations Specialist Office of Hazardous Materials Standards

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106 Hilisi**de Dr.** Lewisville, TX 75057

Nelson § 173.4

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7/16/01

Mr. Edward Mazzulo
Director of Office of Hazardous Materials Standards
Department of Transportation
Room 8422, 7th. St SW
Washington, DC 20590

by fax: 202-366-3012

Dear Mr. Mazzulo:

I am requesting a revised letter of interpretation from you office regarding the transportation of small quantities of formalin solution. I understand this issue has been addressed by your office previously (6/95 letter to J.G. McKay with SAF-T-PAK) but have additional information which may be of interest.

By way of clarification formalin solution (aka 10% formalin) typically consists of 3.7-4% of actual formaldehyde with the balance being water and other non-hazardous materials. Formalin solution is generally packaged in small, screw-top plastic vials of various sizes for diagnostic purposes. These vials are filled to 1/2 capacity, the smallest of which (and most popular) contains 13mL of formalin. I estimate that roughly 70 million of these vials are distributed to laboratories in the US, amost of which are shipped unregulated by air. It is quite clear that formalin solution in this dilution meets neither the definition of UN2209 or UN1198. It has instead been casually classed as UN3335 which leaves it subject to debate. Insofar as these formalin vials are generally shipped unregulated by laboratories across the country I can't help but conclude that the collective opinion is that formalin solution does not meet any definition of hazardous material and is regarded accordingly. To put another way, if this conclusion were inaccurate the economic and administrative impact would be tremendous to these laboratories.

So on the one hand there exists the letter of interpretation from your office suggesting class 9 status and the other being the collective opinion across the country which departs from this interpretation. I believe this collective opinion is based on the notion that formalin solution at the 3.7-4% range does not rise to the level of being a substance "which has narcotic, noxious or other properties such that, in the event of leakage or spillage on an aircraft extreme annoyance or discomfort could be caused to crew members so as to prevent the correct performance of assigned duties." This is particularly so given the very small volumes of material contained in these vials. (note: the actual formaldehyde content per 13mL vial is less than .52mL)

Accordingly, it is my opinion that 10% formalin solution does not meet the definition of a hazard and can ship unregulated by air as it does by ground. Can you please confirm this understanding or state your objections? I would very much appreciate your timely response to this matter.

Sincerely,

John Bickel, VP

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